ALPINE ELECTRONICS, INC.
Tokyo office: 1-1-8 Nishi Gotanda,
Shinagawa-ku, Tokyo 141-8501, Japan
Tel.: (03) 3494-1101

ALPINE ELECTRONICS OF AMERICA, INC.
19145 Gramercy Place, Torrance,
California 90501, U.S.A.
Tel.: 1-800-ALPINE-1 (1-800-257-4631)
1-888-NAV-HELP (1-888-628-4357)

ALPINE ELECTRONICS OF CANADA, INC.
Suite 203, 7300 Warden Ave. Markham,
Ontario L3R 9Z6, Canada
Tel.: 1-800-ALPINE-1 (1-800-257-4631)
1-888-NAV-HELP (1-888-628-4357)

ALPINE ELECTRONICS OF AUSTRALIA PTY. LTD.
6-8 Fiveways Boulevarde Keysborough,
Victoria 3173, Australia
Tel.: (03) 9769-0000

ALPINE ELECTRONICS GmbH
Kreuzerkamp 7-11
40878 Ratingen, Germany
Tel.: 02102-45 50

ALPINE ITALIA S.p.A.
Via C. Colombo 8, 20090 Trezzano Sul
Naviglio MI, Italy
Tel.: 02-48 47 81

ALPINE ELECTRONICS FRANCE S.A.R.L.
(RCS PONTOISE B 338 101 280)
98, Rue De La Belle Etoile, Z.I. Paris Nord II
B.P. 50016 F-95945, Roissy,
Charles De Gaulle Cedex, France
Tel.: 01-48 63 89 89

ALPINE ELECTRONICS OF U.K., LTD.
13 Tanners Drive, Blakelands,
Milton Keynes MK14 5BU, U.K.
Tel.: 01908-61 15 56

ALPINE ELECTRONICS DE ESPAÑA, S.A.
Portal De Gamarra 36, Pabellón 32
01013 Vitoria (Alava)-Apdo. 133, Spain
Tel.: 34-45-283588

Designed by ALPINE Japan
Printed in Japan (Y)
68P30540Y43-O

Yamagata Printing
Co., Ltd.
2-6-34, Takashima,
Nishi-ku, Yokohama,
Kanagawa, Japan

Voice Navigation System

NVE-N077P

OWNER'S MANUAL
Please read before using this equipment.

Auto Route Calculation
Destination Search
Real Time Voice Guidance

MODE D'EMPLOI
Veuillez lire ce mode d'emploi avant la mise en service de l'appareil.

Calcul automatique d'itinéraire
Recherche de destination
Guide vocal en temps réel

MANUAL DE INSTRUCCIONES
Lea este manual antes de utilizar este equipo.

Cálculo automático de ruta
Búsqueda de destino
Guía de voz en tiempo real

BEDIENUNGSANLEITUNG
Bitte lesen Sie diese Bedienungs-anleitung vor Gebrauch Ihres Navigationssytems durch.

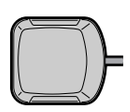
Automatische Streckenermittlung
Zielort-Suche
Echtzeit-Sprachführung

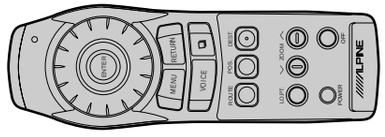
ISTRUZIONI PER L'USO
Leggere questo manuale prima di usare l'apparecchio.

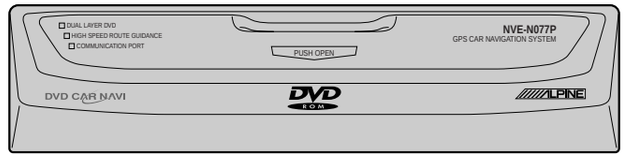
Calcolo automatico del percorso
Ricerca della destinazione
Guida a voce in tempo reale

GEBRUIKSAANWIJZING
Lees de gebruiksaanwijzing zorgvuldig door alvorens u het apparaat in gebruik neemt.

Automatisch uitstippelen van de route
Zoeken van uw bestemming
Gesproken instructies terwijl u rijdt







PRECAUTIONS

IMPORTANT INFORMATION, PLEASE READ CAREFULLY BEFORE USING THIS PRODUCT.

This product is intended to safely provide turn by turn instruction to get you to a desired destination. Please read the following precautions to ensure that you use this navigation system correctly.

- ***This product is not a substitute for your personal judgment. Any route suggestions made by this navigation system may never supersede any local traffic regulations or your personal judgment and/or knowledge of safe driving practices. Do not follow route suggestions if the navigation system instructs you to perform an unsafe or illegal maneuver, places you in an unsafe situation, or routes you into an area which you consider unsafe.***

- ***Glance at the screen only when necessary and safe to do so. If prolonged viewing of the screen is necessary, stop in a safe and legal manner and location.***

- ***Do not input destinations, change settings, or access any functions requiring a prolonged view of the monitor and/or remote control while you are driving. Stop in a safe and legal manner and location before attempting to access the system.***

- ***Do not use the navigation system to route you to emergency services. Not all locations of emergency service providers such as police and fire stations, hospitals, and clinics are contained in the database. Please use your own judgment and your ability to ask for directions in these situations.***

- ***The map database contained within the media (DVD ROM) in which it is stored is the most recent map data available at the time of production. Because of changes in streets and neighborhoods, there may be situations where the navigation system may not be able to route you to your desired destination. In these cases, use your own personal judgment.***

- ***The map database is designed to provide you with route suggestions, it does not take account of the relative safety of a suggested route, or of factors which may affect the time required to reach your destination. The system does not reflect road closures or construction, road characteristics (i.e. type of road surface, slope or grade, weight or height restrictions, etc.), traffic congestion, weather conditions, or any other factors which may affect the safety or timing of your driving experience. Use your personal judgment if the navigation system is unable to provide you with an alternate route.***

- ***There may be situations where the navigation system may display the vehicle's location erroneously. Use your own driving judgment in this situation, taking into account current driving conditions. Please be aware that in this situation, the navigation system should correct the vehicle's position automatically; however, there may be times where you may have to correct the position yourself. If this is the case, stop in a safe and legal manner and location before attempting operation.***

- ***Make certain that the volume level of the monitor is set to a level which still allows you to hear outside traffic and emergency vehicles. Driving while unable to hear outside sounds could cause an accident.***

- ***Position the monitor so that glancing at the screen can be performed quickly and easily by the driver. If any adjustments are necessary, stop in a safe and legal manner and location.***

- ***The monitor used with this system should not be placed in a location which hinders the driver's view of any critical elements necessary to operate the vehicle properly (i.e. the road, mirrors, instruments, vehicle's surroundings). In addition, the monitor should not be placed in a location which may obstruct the air bags should they deploy.***

- ***Remember to wear your seat belt at all times when the car is in motion. This will help you avoid impact with anything in the car's interior, including the system itself.***

- ***Please make certain that any other person who intends on using this navigation system reads these precautions and the following instructions carefully.***

- ***If there is anything in the manual which you do not understand, or are uncertain about the operation of the navigation system, please contact an authorized representative before using the navigation system.***

Points to Observe for Safe Usage

- Read this manual carefully before starting operation and use this system safely. Alpine cannot be responsible for problems resulting from failure to observe the instructions in this manual.
- This manual uses various pictorial displays to show how to use this product safely and to alert you to potential dangers resulting from improper connections and operation. Following are the meanings of these pictorial displays. It is important to fully understand the meanings of these pictorial displays in order to use this manual and the system properly.

●Meaning of displays

⚠**Warning**	This symbol means important instructions. Failure to heed them can result in serious injury or death.
⚠**Caution**	This symbol means important instructions. Failure to heed them can result in injury or material property damage.

Tips	This indicates supplementary explanation of operation of this system.

⚠ Warning

DO NOT DISASSEMBLE OR ALTER. Doing so may result in an accident, fire or electric shock.

KEEP SMALL OBJECTS SUCH AS BATTERY OUT OF THE REACH OF CHILDREN. Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

USE THE CORRECT AMPERE RATING WHEN REPLACING FUSES. Failure to do so may result in fire or electric shock.

USE THIS PRODUCT FOR MOBILE 12V APPLICATIONS. Use for other than its designed application may result in fire, electric shock or other injury.

DO NOT OPERATE ANY FUNCTION THAT TAKES YOUR ATTENTION AWAY FROM SAFELY DRIVING YOUR VEHICLE. Any function that requires your prolonged attention should only be performed after coming to a complete stop. Always stop the vehicle in a safe location before performing these functions. Failure to do so may result in an accident.

MINIMIZE MONITOR VIEWING WHILE DRIVING. Viewing the monitor may distract the driver from looking ahead of the vehicle and cause an accident.

DO NOT FOLLOW ROUTE SUGGESTIONS IF THE NAVIGATION SYSTEM INSTRUCTS YOU TO PERFORM AN UNSAFE OR ILLEGAL MANEUVER, OR PLACES YOU IN AN UNSAFE SITUATION OR AREA. This product is not a substitute for your personal judgment. Any route suggestions by this system should never supersede any local traffic regulations or your personal judgment or knowledge of safe driving practice.

⚠ Caution

HALT USE IMMEDIATELY IF A PROBLEM APPEARS. Failure to do so may cause personal injury or damage to the product. Return it to your authorized Alpine dealer or the nearest Alpine Service Centre for repairing.

DO NOT PLACE HANDS, FINGERS OR FOREIGN OBJECTS IN INSERTION SLOTS OR GAPS. Doing so may result in personal injury or damage to the product.

DO NOT MIX NEW BATTERIES WITH OLD BATTERIES. INSERT WITH THE CORRECT BATTERY POLARITY. When inserting the batteries, be sure to observe proper polarity (+ and –) as instructed. Rupture or chemical leakage from the battery may cause fire or personal injury.

Contents

Precautions

4 ..... Points to Observe for Safe Usage
5 ..... Warning
6 ..... Caution

Preface

8 ..... Navigation systems

Names of the Parts and Their Functions

10 ..... Remote control and display

Before Using This System

12 ..... Main unit
13 ..... Precautions for the remote control
14 ..... Switching the display on/off

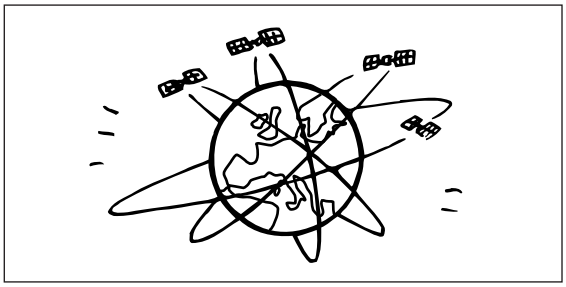
Reference

15 ..... In case of difficulty
16 ..... If this message appears
17 ..... Specifications

Navigation systems

This navigation system uses three different sensing devices to determine the present location and to track the progress of the vehicle. These three devices are: a GPS (Global Positioning System) receiver which receives digital signals from the GPS satellites to determine the current position of the vehicle, a gyroscope which determines which direction the vehicle turns, and a speedometer pulse sensor which determine how far the vehicle has travelled. Because this system incorporates a gyroscope and a speed sensor, the system will be able to display the vehicle's position and track the vehicle's progress even in areas where the GPS signal may be blocked.
All map data is contained on a removable DVD ROM (sold separately). This system integrates this unique map database with the sensing devices to automatically plot out a route when a destination is entered. While driving, the navigation system guides you along the route with pictorial displays and verbal prompts.

GPS (Global Positioning System)



Delay time before the present vehicle's position can be displayed

Determination of the present vehicle's position starts when the ignition key is turned to the ACC or ON positions and ends when the key is turned OFF. When the key is first turned to the ACC or ON positions, there is a slight delay of approximately one to two minutes before the present vehicle's position can be displayed.

This system receives signals from 3 or more GPS satellites (operated by the United States Department of Defense) orbiting at an altitude of 21,000 kilometers and measures the present car position using the same principles as triangulation.

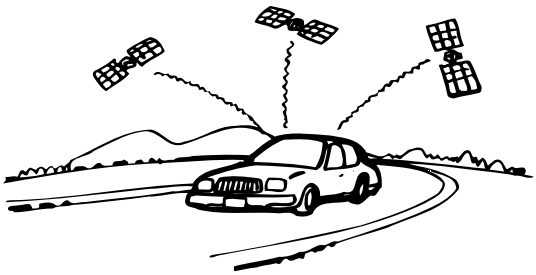
The error from the actual position of the vehicle

When GPS signals can be received from 4 or more satellites, 3 dimensional positioning (the altitude, latitude, and longitude) of the vehicle can be determined. In this case, the error from the actual position of the vehicle is in the range of 100 to 655 feet (30 to 200 meters). When GPS signals can only be received from 3 satellites, only two dimensional positioning (latitude and longitude) can be determined, resulting in a slightly increased error. When GPS signals can only be received from less than three satellites, positioning of the vehicle through GPS is not possible. In addition to the inherent errors from GPS, the error rate can also be increased if the United States Department of Defense deliberately changes the accuracy rate.

Gyroscope

The gyroscope is a sensor that accurately measures the angle by which the direction of a vehicle or other moving body changes. Gyroscopes are used in inertial navigation systems for airliners and ships. In this navigation system, the gyroscope is used together with the speed sensor, making it possible to display the position of the vehicle even in locations where GPS signals may be blocked.

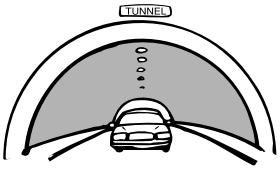
Locations where GPS signals are received easily



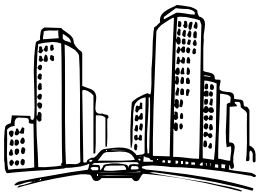
The optimum locations for receiving GPS signals are locations that command a good view where there are no tall buildings, trees, or other objects to obstruct the signals.

Locations where GPS signals cannot be received

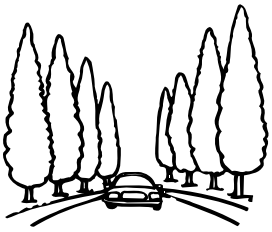
In the following locations or conditions GPS signals cannot be received. However even in these locations, the gyroscope and speed sensor will provide a substitute means of determining the vehicle's position and the system will be able to continue to track the vehicle's progress along the route.



In tunnels and indoor parking lots

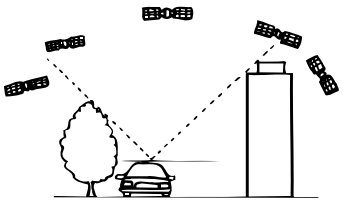


Locations surrounded by tall buildings



Locations surrounded by tall trees

On the bottom level of double-decker motorways



When a GPS satellite is low on the horizon (angle below 10°), obstructions sometimes make normal reception impossible

Names of the Parts and Their Functions

Remote control and display

Operation varies depending upon the disc version in use. For details, refer to the manual for the DVD ROM.

Remote control transmitter
This section transmits the remote control signals. Point toward the monitor display for operation.

Rotary encoder
This has multiple functions. In map displays, zooms in or out; in list displays, scrolls list pages; in coordinate inputting, moves cursor; in alphabet inputting, moves alphabetical characters.

ENTER button
Selects a highlighted item in the menu when the button is pressed.
Press this button until a click sound is produced to execute your selection.

MENU button
Displays the menu screen. (See Tips.)

VOICE button
Press this button for voice guidance. (Real time voice guidance)

DEST (Destination) button
Displays street name inputting screen.

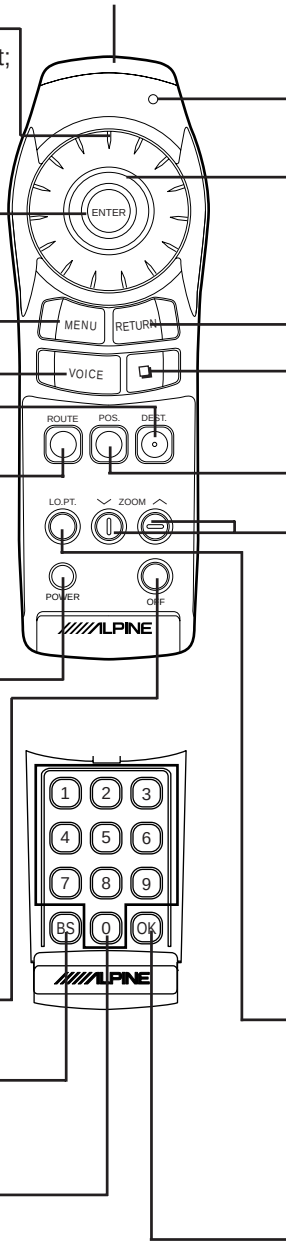
ROUTE button
Pressing this button searches for the route again and switches between motorway preference and ordinary road preference for route searching.

POWER On button
Turns the pictorial display on.

Power OFF button
Turns the pictorial display off.

BS button
Deletes the character previously input.

Numeric Keypad
- Use these buttons to enter phone numbers, address numbers or street names containing numbers (i.e., 42nd St.).
- Please refer to the OWNER'S MANUAL (included with DVD-ROM) for software operating instructions.



Tips

- Be sure to apply the parking brake before starting the menu operation, otherwise the menu operation cannot be performed.
- If an operation is not accepted, the navigation system beeps.
- For more information on remote control handling, see Remote Control Precautions on page 13.
- Adjust the volume with the control on display monitor, etc.

Tips

Stickers are provided with the remote control to be used by the people who speak one of the five other languages than English. To use these stickers, please see the portion for the desired language.

Transmitting indicator
Blinks while the remote control signals are transmitted.

Joystick
Tilt this to select items from menus and moves the map in eight directions.

RETURN button
Returns the navigation system to the previous searching.

❑ button
Press to switch between the map and guide (with arrow) modes.

POS. (Position) button
Returns to the current position of your vehicle or displays the latitude/longitude.
When this button is kept pressed, the screen display changes as follows:

→ North-up → Heading-up →

ZOOM buttons (∨, ∧)
Change the map magnification ratio upward or downward in 13 steps (400 km, 200 km, 100 km, 50 km, 25 km, 12 km, 6.4 km, 3.2 km, 1.6 km, 800 m, 400 m, 200 m, 100 m)

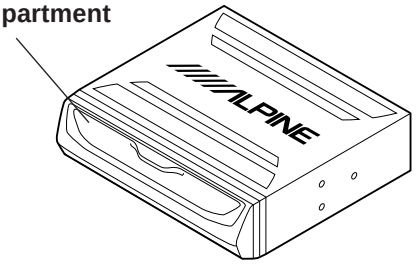
LO.PT. (Local Point) button
Pressing this button displays the current position of the vehicle or local interest points in the vicinity. When this button is pressed, the selection menu for the displayed local points will appear in the display.

OK button
Executes numeral inputtings and starts searching.

Before Using This System

Main unit

DVD-ROM compartment door

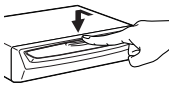


Tips

- Keep the door closed except when changing the DVD-ROM.
- Before inserting or removing the DVD-ROM, always turn the ignition key to ACC or ON. You cannot remove or insert the DVD-ROM with the ignition key turned OFF.
- Do not insert any DVD Video discs or map DVD-ROM.

Inserting the DVD-ROM

1 Press the door in gently then slide it downwards.

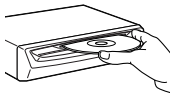


If a DVD-ROM is already in the main unit, the DVD-ROM is automatically ejected part way.

2 Insert the DVD-ROM with the label side facing up.

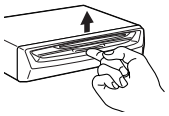
When you insert the DVD-ROM into a certain position, it is automatically pulled into the navigation system.

Tips Do not touch the surface of the disc directly with your fingers.



3 Close the door.

Be sure to close the door to prevent dust from getting inside.

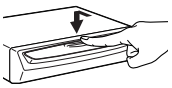


Removing the DVD-ROM

1 Press the door in gently then slide it downwards. The DVD-ROM is automatically ejected part way.

If the DVD-ROM is not removed, it is automatically drawn back into the player after a while.

Caution Never close the door while the DVD-ROM is being unloaded. Doing so could scratch the DVD-ROM or damage the player.



Tips

- The DVD-ROM is a delicate device. Avoid dropping or scratching it.
- Keep the DVD-ROM away from dust and moisture.

Precautions for the remote control

Tips

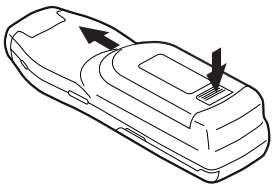
- This device is lightweight and compact. Do not drop it or bump it. Do not put it in your trousers pocket. Doing so could break it, speed up battery wear, or cause malfunction.
- To clean this device, wipe it off with a dry cloth. (If it is extremely dirty, wipe it off with a damp cloth that has been carefully wrung out.) Never use benzene, paint thinner or harsh chemicals. They cause deterioration of the case and paint. Do not leave this remote control on the dashboard or anywhere else subject to direct sunlight.

Replacing the batteries

Use two AA-type batteries.

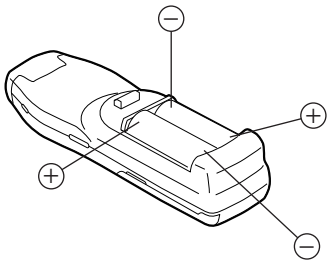
1 Open the cover

Opening the battery cover.
Push on the cover and slide it as indicated by the arrows then the cover will be removed.



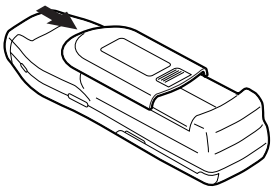
2 Replace the batteries

Replacing the battery.
Remove the old batteries. Insert new ones matching the (+) and (–) polarities as shown in the diagram inside the remote control.



3 Close the cover

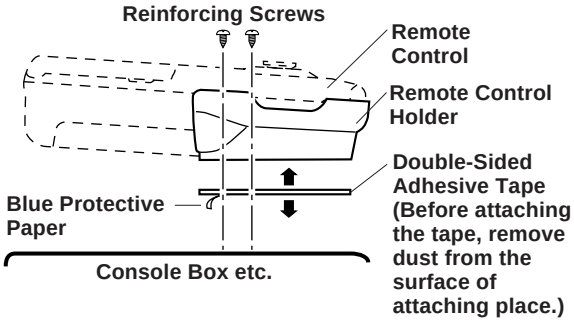
Closing the cover.
Push the cover in the arrow direction until a click is heard.



Remote Control Holder Installation

- If direct sunlight reaches the remote control mounted on the holder, remove the remote control from the holder and put it in the glove compartment.
- If double-sided adhesive tape cannot install the holder securely, use screws.

Note: Attach the blue protective paper side of double-sided tape onto the console box, etc.


Reinforcing Screws
Remote Control
Remote Control Holder
Double-Sided Adhesive Tape (Before attaching the tape, remove dust from the surface of attaching place.)
Blue Protective Paper
Console Box etc.

Switching the display on/off

With this system, when the display monitor is set in the navigation display mode or external input display mode and the ignition key is turned to the ACC or ON positions, the opening screen will automatically appear.

1-1 When the system is used for the first time, the language selection menu is displayed. Select (highlight) the desired language by tilting the joystick. Then press the ENTER button.

Note: For English, you can select the distance indications in either M (Mile) or km (Kilometre). For other languages, only kilometer is used for the distance indications.

1-2 The opening screen is displayed. After the opening screen is displayed, important information saying "Please be sure to read this!" is displayed. Be sure to read it.

2 After you have read this important information, press the ENTER button.

The map screen is displayed.

3 With the map displayed, press the OFF button to turn off the monitor.

If you press the POWER button, the opening screen is displayed.

Tips

- If there is no disc in the navigation system, "Please insert map DVD ROM" is displayed. For details on how to load the disc, see "Inserting the DVD-ROM" and "Removing the DVD-ROM" on page 12.
- If the disc cannot be read, the "DVD ROM unreadable. Please check DVD ROM" message is displayed. Try reloading the disk and if the problem cannot be cured, return to an authorized Alpine dealer.
- If the monitor is kept on with the engine off for an extended period of time, the vehicle's battery may discharge.
- Operation varies depending upon the disc version in use. For details, refer to the manual for the DVD ROM.

Reference

In case of difficulty

If you encounter a problem, please review the items in the following checklist. This guide will help you isolate the problem if the unit is at fault. Otherwise, make sure the rest of your system is properly connected or consult your authorized Alpine dealer.

Symptom	Cause	Solution
No operation	Blown fuse	Replace with a fuse of the prescribed rating.
	Ambient temperature over 50°C	Lower the temperature in the vehicle below 50°C, for example by running for a while with the window open or by using the air conditioner.
	Moisture condensation	Allow enough time for the condensation to evaporate (about 1 hour).
The present car position cannot be measured correctly.	The car position changed after the ignition was switched off. • Movement on a ferry boat • Rotation of a parking lot turntable • Movement by tow truck	Drive for a while with GPS signal reception.
The measurement error is too large.	Poor satellite configuration	Move to a location where GPS satellite reception is easy. (See page 9.)
	Measurement is 2 dimensional.	
Screen not displayed	The navigation screen is off.	Press the POWER button on the remote control.
Cannot read disc is displayed for a certain operation.	The disc is dirty.	Clean the disc.
	The pickup lens is dirty.	Have the pickup lens cleaned periodically.
Unstable operation	The remote control batteries are wearing out.	Replace the remote control batteries. (See page 13.)

If this message appears

Various messages are displayed on the screen during operation. In addition to the messages telling you the current status or providing guidance for the next operation, there are also the following error messages. If one of these error messages is displayed, carefully follow the instructions in the solution column.

Message	Cause	Solution
Please insert map DVD ROM.	• The disc has been removed. • There was no disc in the system when the power was switched on.	Insert the disc (sold separately).
DVD ROM unreadable. Please check DVD ROM.	• A disc that this system cannot read has been loaded. • The disc is dirty or upside down. • The disc cannot be read because of condensation.	Insert the map disc (sold separately). Take out the disc, check if it was upside down, clean it if necessary, then re-insert it. Take out the disc, allow enough time for the condensation to evaporate (about 1 hour), then re-insert the disc.
DVD ROM being checked.	• A disc was just inserted • Vibration or the like made it impossible to read the disc.	When the disc check is complete, the following screen is displayed automatically.
Do not operate while driving. Stop the car, then use this operation.	• The MENU button was pressed while the vehicle was running. • A menu selection operation was carried out while the vehicle was running.	Move the vehicle to a safe location, stop, and engage the parking brake, then carry out this operation.

Specifications

Power requirement	14.4 VDC (11 – 16 V allowable) negative ground	
Operating temperature (main unit)	+14°F to +122°F (–10°C to +50°C)	
Aerial type	Micro-strip planar aerial	
Reception frequency	1575.42±1 MHz	
Reception sensitivity	–130 dB max.	
Reception method	Parallel 8 channels	
External dimensions	Navigation unit (W × H × D)	7–3/4 (196) × 2 (50) × 7–9/16" (191.5 mm)
	Remote controller (W × H × D)	1–3/4 (45) × 1–3/4 (45) × 5–1/4" (135 mm)
Weight	Navigation unit	3 lbs. 12 oz (1.7 kg)
	Remote controller	2.5 oz (0.07 kg)

Accessories

Product	Q'ty	Product	Q'ty
Installation parts	1 set	Power connector	1
Aerial	1 set	13-P RGB extension cable	1
Remote control	1 set	Owner's manual, audiopass, etc.	1 set
Batteries (AA)	2		